Main Features

MENU function
You can easily customize the settings to your liking.

Random function
The Random function allows you to play tracks in random order.

Last Memory function
(MP3(WMA)-CD Only)

The Last Memory function allows you to resume playback from the start of the track that you last listened to.

NAVIGATION function
(MP3(WMA)-CD Only)

You can easily scan and select a file on an MP3(WMA)-CD.

ESP function
The ESP function ensures high resistance to shock or vibration so that the sound signal remains undisturbed.

Album function
(MP3(WMA)-CD Only)

The Album function allows easy browsing and searching of your favorite tunes by album name, song title and artist.

What is MP3?

MP3 means MPEG1 Layer 3, the global standard for audio signal compression technology. It uses digital compression technology to compress original sound data by up to 12 times without sound quality degradation.

What is WMA?

WMA (Windows Media Audio) is a file format, created by Microsoft, that offers a higher compression rate and just as good sound quality as MP3.
Typical MP3 files are about one-tenth the size of the original, whereas WMA files are about half the size of standard MP3.

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Safety Warning

Take care not to allow dust or other contaminants to come into contact with your player.

Do not use your player on uneven or unstable surfaces.
- Your player may not operate properly.

Do not leave your player in direct sunlight or near a heat source.

Do not put anything other than a CD (CD-R or CD-RW) inside your player.
- Such actions will damage your player.

Do not use broken or scratched MP3 CDs.

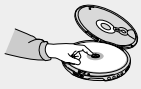
Do not apply heavy pressure to the player.

Unplug the power cord when not using the player for long periods of time.

Do not touch the AC Adapter with wet hands when it is plugged in.

Avoid places of low temperature (below 5°C) or high temperature (above 35°C).

Do not touch the lens with your finger or scratch it.
- Your player may not operate properly.



Do not place your player in a dusty or humid location.

Do not attempt to take apart, repair or modify your player.
- Such actions will damage your player.

GB

Earphones

Road safety
- Do not use the earphones while riding a bicycle, driving any kind of motor vehicle or motorcycle.
  This is very dangerous and is illegal in certain regions.
  It is dangerous to listen to earphones at high volume while crossing roads.

In order to protect your hearing
- Do not wear the earphones with the volume set too high.
  Doctors state that listening to music at high volume for prolonged periods is harmful to hearing.
- If you experience a ringing in your ears, reduce the volume or stop listening.

Ambient operating conditions

- Ambient temperature : 5°C~35°C (41°F~95°F)
- Humidity : 10~75%

Environmental information

- Your unit consists of materials which can be recycled if disassembled by a specialized company. Please observe local regulations regarding the disposal of packing materials, exhausted batteries and old equipment.

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
PRODUCTO LASER CLASE 1

- Use of controls adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

- **CLASS 1 LASER PRODUCT**
  This Compact Disc player is classified as a CLASS 1 LASER product.
- CAUTION-INVISIBLE LASER RADIATION WHEN OPEN AND INTER LOCKS DEFEATED, AVOID EXPOSURE TO BEAM.

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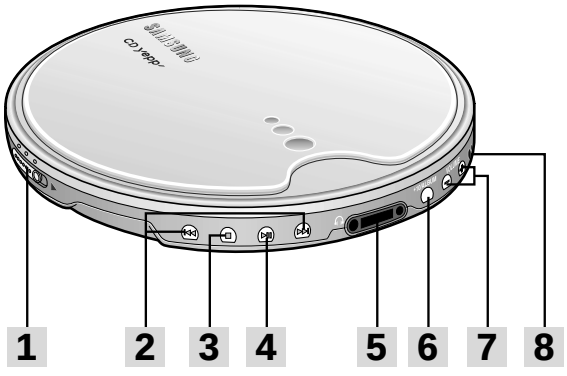
Buttons and Controls

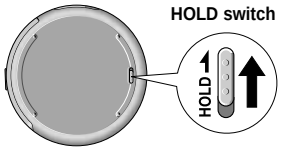
Main Unit



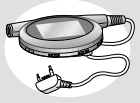
1. OPEN switch	5. Remote control Connection jack
2. Skip/Search buttons	6. +10/Album button
3. STOP (■) button	7. VOLUME buttons
4. Play/Pause (▶II) button	8. AC Adapter & External Battery Pack Connector

GB

Bottom of the Main Unit

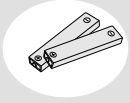


Accessories



Remote Control

Earphone



Rechargeable Batteries
(Ni-MH: 1350mAh 1.2V) x 2

AC adapter

External
battery pack

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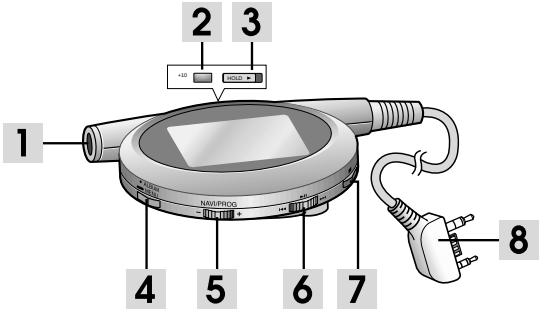
Buttons and Controls

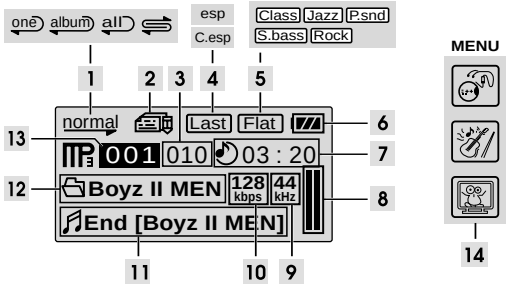
Remote Control



1. Earphone Connection jack	5. • NAVI/PROG button • Volume button
2. +10 button	6. • Play/Pause button • Skip/Search button
3. HOLD switch	7. STOP button
4. • ALBUM button • MENU button	8. Main Unit connection jack

Display

* The picture of the display panel below is based on MP3-CD playback.



1. Playback or Repeat Mode indicator	8. • L/R Channel Level Indicator • Anti-Shock Time Buffer Level Indicator
2. Program Indicator	9. Sampling Frequency Indicator
3. Track Number indicator	10. Bit rate indicator
4. • Last Memory Indicator (for MP3 or WMA CDs) • esp/C.esp Indicator (for standard Audio CDs)	11. Title indicator
5. Eq Mode Indicator	12. Album Name indicator
6. Remaining Battery Power indicator	13. Album Number indicator
7. Play time indicator	14. Menu icon

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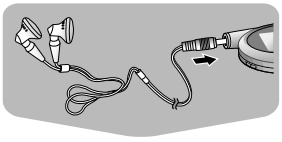
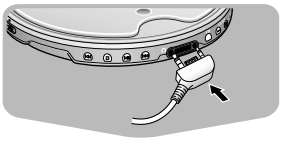
Preparation before using your unit

How to Connect

1 **Connect the earphones to the remote control.**

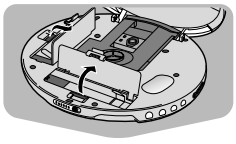


2 **Connect the main unit connection jack to the main unit.**



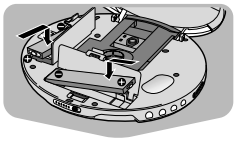
Using rechargeable batteries

1 **Open the cover of the battery compartment.**



2 **Insert the rechargeable batteries into the battery compartment.**

- Carefully check the correct orientation of the positive and negative terminals of the battery.



3 **An AC adapter must be connected to the AC outlet and power input.**

- Charging of the rechargeable batteries will commence.

➢ **AC adapter :** DC 4.5V, 500mA

Note

- **Time taken to fully charge the battery :** 10 hours
- **Battery life of fully charged battery**
  MP3-CD : 11 hours 30 minutes max.
  CD : 6 hours 30 minutes max (when Anti Shock 160 seconds is on)

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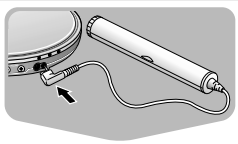
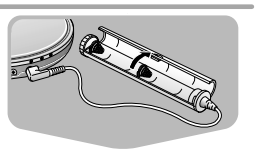
Preparation before using your unit

Using standard batteries (not supplied)

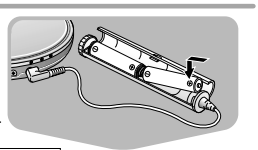
1 **Attach the external battery pack as shown in the picture.**



2 **Open the cover of the battery compartment.**



3 **Carefully check the correct orientation of the positive and negative terminals of the batteries.**



- Use two AA/LR6 type 1.5 V batteries.

➢ Use two AA/LR6 alkaline batteries.
Manganese batteries have a shorter battery life.

Battery Life (Using alkaline batteries)

	Rechargeable Batteries	Rechargeable Batteries + Battery Pack (type AA/LR6)
MP3(WMA)-CD	11 hours 30 minutes	26 hours
CD (when Anti Shock 160 seconds is on)	6 hours 30 minutes	14 hours

- The battery life-time is based on continuous use.
- These AA/LR6 batteries are alkaline batteries.

Time for Battery Replacement

- Replace the batteries if the remaining battery power indicator " " flashes.
- Even though the remaining battery power indicator " " may be flashing, if the batteries have already expired, the LCD remote control will not be lit.

Warning

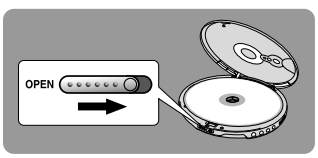
- The external battery pack cannot charge, as it does not have the capacity to charge.
- Do not mix old and new batteries.
- Remove the batteries if they will not be used for a long time.
- Remove the standard batteries when you use an AC adapter.
- Standard batteries cannot be recharged.

CD Playback

GB

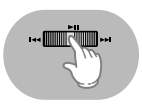
1 **Slide the OPEN button to open the door.**
Insert a CD.

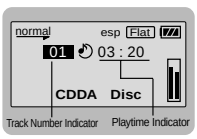
- Push the door to close it.



2 **Press the Play/Pause (▶II) button.**

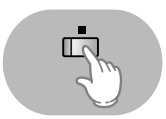
- Once the CD is recognized, playback commences.





3 **To stop playback, press the STOP (■) button.**

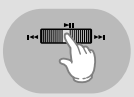
- Press the STOP (■) button again to switch off the unit.
- The power will automatically switch off after 15 seconds, even if you do not press the STOP (■) button.



To temporarily pause playback

Press the Play/Pause (▶II) button.

- Playback will be temporarily suspended.
- Press the Play/Pause (▶II) button again to resume playback.



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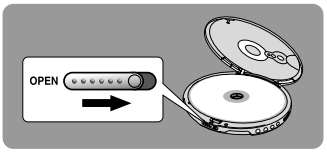
MP3(WMA)-CD Playback

1 **Slide the OPEN button to open the door, and insert an MP3(WMA)-CD.**

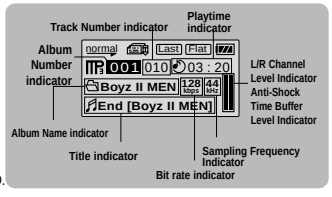
• Push the door to close it.



2 **Press the Play/Pause (▶II) button.**

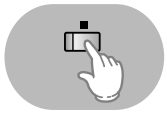
• The inserted MP3(WMA)-CD will be scanned for about 30~90 seconds. Playback will then commence.

➢ Your CD Player will take a few moments to scan through all the tracks and the sessions recorded on an MP3(WMA)-CD.



3 **To stop playback, press the STOP (■) button.**

• Press the STOP (■) button again to switch off the unit.



Note

- **If a music file is corrupted and a particular section cannot be read, only that section will be skipped. But if the file continues to be unreadable, the player will skip to the next file.**
- **Files that do not conform to specifications (refer to P. 32) will be skipped.**
- When the OPEN switch is slid to open the door, playback will stop.
- The quality of MP3(WMA)-CD playback may vary depending on the condition of the disc containing the music files or the condition of the recorder with which the disc was created.
- If different types of files or unnecessary folders are on the same disc, you will have problems with playback.

Skip/Search function

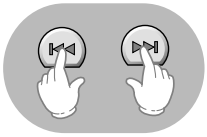
GB

Skip

Press and release the I◀◀ or ▶▶I button during playback of a CD.

(Slide the I◀◀ or ▶▶I to the left or right on the remote control.)

Main Unit



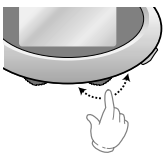
- Press the ▶▶I button to play the next track. Press the I◀◀ button to go back to the beginning of the current track. (Briefly press the I◀◀ button twice to repeat the previous track).
- Press the ▶▶I button while the unit is in "Stop" (no playback) mode. Track 2 will be played back. Press the I◀◀ button to play back the previous song.

Search

Press and hold the I◀◀ or ▶▶I button during playback of a CD.

(Slide and hold the I◀◀ or ▶▶I to the left or right on the remote control.)

Remote Control

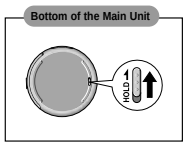


- Press and hold the I◀◀ or ▶▶I button. The CD will playback in fast forward or fast reverse mode.
- Release the button to return to normal playback mode.

HOLD function

- Buttons pressed during CD playback will not function. (On the display, the **"Hold"** indicator will flash.)
- Use the HOLD function when carrying your CD Player around with you. Use of this function will allow you to conserve battery life as it prevents the CD Player from being turned on if a button is pressed unintentionally.
- The remote control will still operate while the HOLD function on the main unit is active.
- The main unit will still operate while the HOLD function on the remote control is active.

Bottom of the Main Unit



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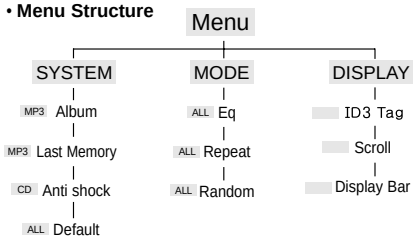
Menu function

You can customize the settings to your liking.

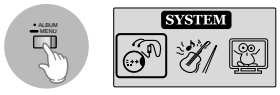
• **Menu Structure**



- MP3 :Functions available only when playing an MP3(WMA)-CD
- CD :Functions available only when playing an Audio CD
- ALL :Functions available when playing an MP3(WMA)-CD or Audio CD

1 **Press and hold the MENU/ALBUM button on the remote control.**

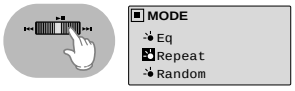
• A group of menu icons will appear.



2 **Use the I◀◀ , ▶▶I buttons to select the desired menu, and then press the Play/Pause (▶II) button.**

• A list of functions will appear.

3 **Use the I◀◀ , ▶▶I buttons to select the desired function, and then press the Play/Pause (▶II) button.**



4 **Press the MENU/ALBUM button to move to a higher level menu.**

• If no button is pressed for 20 seconds, you will be exited to the remote control display.

Note • While the Disc is being read, you won't be able to use the Menu function.

Album function

Albums are sections of tracks representing one artist.
This function makes it easier to skip between them.

*** This function is only available during playback of an MP3(WMA)-CD.**

GB

1 **Select SYSTEM in the MENU screen, and then press the Play/Pause (▶II) button.**

2 **Use the I◀◀ , ▶▶I buttons to select Album, and then press the Play/Pause (▶II) button.**

3 **Use the I◀◀ , ▶▶I buttons to select Album ON or OFF, and then press the Play/Pause (▶II) button.**

• If you select OFF for Album, the sort order of the files will change from Album to Title.

• After the selection, press the MENU/ALBUM button to exit to the remote control display.

4 **After selecting Album ON, press the MENU/ALBUM button.**

• It moves to the next album.

Example) Pressing the MENU/ALBUM button during playback of the first album will take you to the start of the first track of the second album.

• This product is equipped with a graphic LCD display that supports English, Japanese (without Chinese characters), and Korean characters.

• Languages other than English will be marked with an asterisk " * ".

Note • When playing a standard audio CD, the +10/ALBUM button on the main unit only works as the +10 button.
When playing an MP3/WMA-CD consisting of albums, the +10/ALBUM button works as the ALBUM button only if "ALBUM ON" has been selected.

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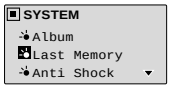
Last Memory/ESP function

Last Memory function

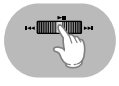
* This function is only available during playback of an MP3(WMA)-CD.

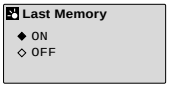
• When MP3(WMA)-CD playback is selected again after your CD player has been stopped or turned off, the unit plays back from the start of the track that you last listened to. If the CD cover is opened, the unit resets to Track 1.

1 **Select SYSTEM in the MENU screen, and then use the I◀◀ , ▶▶I buttons to select Last Memory.**

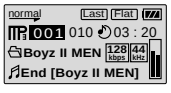


2 **Use the I◀◀ , ▶▶I buttons to select Last Memory ON or OFF, and then press the Play/Pause (▶II) button.**





3 **Press the MENU/ALBUM button twice to exit to the remote control display.**



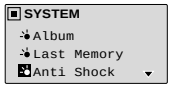
GB

ESP (Electronic Skip Protection) function

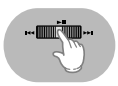
* This function is only available during playback of a CD.

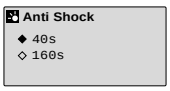
• ESP prevents the music being interrupted by vibration and shock.
• The player buffers up to 480 seconds of MP3-CD and 960 seconds of WMA; hence even if the data flow is interrupted, data is read from memory so that the sound signal remains undisturbed.

1 **Select SYSTEM in the MENU screen, and then use the I◀◀ , ▶▶I buttons to select Anti Shock.**

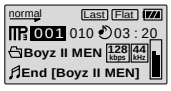


2 **Use the I◀◀ , ▶▶I buttons to select Anti Shock Time 40 seconds or 160 seconds, and then press the Play/Pause (▶II) button.**





3 **Press the MENU/ALBUM button twice to exit to the remote control display.**



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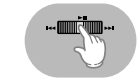
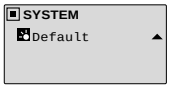
Default function

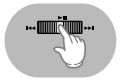
This function initializes all settings to their default values.

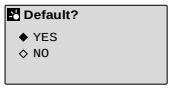
1 Select SYSTEM in the MENU screen, and then use the I◀◀ , ▶▶I buttons to select Default.





2 Use the I◀◀ , ▶▶I buttons to select Default YES or NO, and then press the Play/Pause (▶II) button.





Default Settings

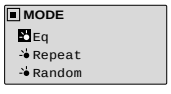
Album	: On	Off - for a typical Audio CD or an MP3(WMA)-CD with just one directory
Last Memory	: On	
Anti Shock	: 160s	
Eq	: Flat	
Repeat	: Off	
Random	: Off	
ID3 Tag	: On	
Scroll	: x2	
Display Bar	: H-Level Meter	

EQ/Repeat function

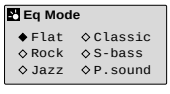
EQ function

What is EQ?
Press EQ button to select various sound modes such as Rock, Jazz, Classic, Super Bass, Power Sound. Select the sound mode appropriate for the music you are playing.

1 Select MODE in the MENU screen, and then use the I◀◀ , ▶▶I buttons to select Eq.

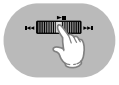


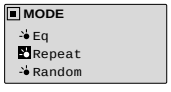
2 Select the sound mode you want; Flat, Rock, Jazz, Classic, S-bass, P.sound.



Repeat function

1 Select MODE in the MENU screen, and then use the I◀◀ , ▶▶I buttons to select Repeat.





2 Use the I◀◀ , ▶▶I buttons to select Repeat Mode.

- OFF : All songs will be played back once and then stop.
- 1 : One song will be played back repeatedly.
- Album : All songs in the selected album will be played back repeatedly. (MP3-CD and WMA-CD only)
- All : All songs on the disc will be played back repeatedly.

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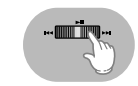
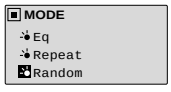
Random function

Random function

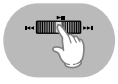
• All tracks will be played back in random order.

1 **Select MODE in the MENU screen, and then use the I◀◀ , ▶▶I buttons to select Random.**





2 **Use the I◀◀ , ▶▶I buttons to select Random ON or OFF, and then press the Play/Pause (▶II) button.**



ID3 Tag function

ID3 Tag function

★ **This function is only available during playback of an MP3(WMA)-CD.**

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• This function displays the tag information from all of the songs on an MP3/WMA-CD.

What is ID3 Tag **?**

• This is what is attached to an MP3 audio file to carry information relevant to the file, such as the title, artist, album, year, genre and a comment field.

1 **Select DISPLAY in the MENU screen, and then use the I◀◀ , ▶▶I buttons to select** ID3 Tag.

2 **Use the I◀◀ , ▶▶I buttons to select** ID3 Tag **ON or OFF, and then press the Play/Pause (▶II) button.**

• ID3 Tag ON : Tag information of the song file is displayed.
• ID3 Tag OFF : Only the name of the song file is displayed.

Note

• If no tag information is present in the file, the song title or artist cannot be displayed. Only the file name is displayed.

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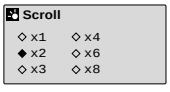
Scroll function

This function is used to adjust the scroll speed of the song title.

* This function is only available during playback of an MP3(WMA)-CD.

1 **Select DISPLAY in the MENU screen, and then use the I◀◀ , ▶▶I buttons to select Scroll.**

2 **Use the I◀◀ , ▶▶I buttons to select the desired scroll speed.**



• X1: Scrolls at half speed.	• X4: Scrolls twice as fast as normal.
• X2: Scrolls at normal speed.	• X6: Scrolls three times faster than normal.
• X3: Scrolls one-and-half times faster than normal.	• X8: Scrolls four times faster than normal.

➢ If the scroll speed is high, an afterimage may appear on the display. If this occurs, normal speed is recommended.

Display Bar/+10 function

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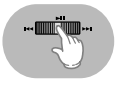
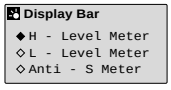
Display Bar function

1 **Select DISPLAY in the MENU screen, and then use the I◀◀ , ▶▶I buttons to select Display Bar.**

2 **Use the I◀◀ , ▶▶I buttons to select the desired function, and then press the Play/Pause (▶II) button.**

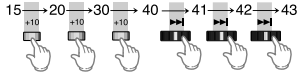




- H-Level Meter : The level meter indicator is used to indicate the audio level of L-channel and R-channel. When H-Level Meter is selected, the movement of the meter becomes twice as large as when L-Level Meter is selected.
- L-Level Meter : The level meter indicator is used to indicate the audio level of L-channel and R-channel.
- Anti-S Meter : The level meter indicator is used to indicate Anti-Shock Time/Buffer Level.

+10 function

- **Press the +10 button.**
- **Press the +10 button briefly while playing back a CD. Playback will skip 10 tracks.**



Example : If you want to select track 43 during playback of track 15, press the +10 button three times, then press the ▶▶I button three times.

- **MP3(WMA)-CD playback** : Press and hold the MENU/ALBUM button longer to select "**Album Off**". The button now functions as the +10 button.

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Navigation function

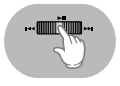
You can easily select and play the song you want from the album.

In the stop mode

* This function is only available during playback of an MP3(WMA)-CD.

1 **Press the NAVI/PROG button on the remote control.**
- Albums in the root folder will be displayed.

2 **Using I◀◀ or ▶▶I button, select the desired album or song.**



3 **Press the Play/Pause (▶II) button.**
- Albums or songs in the selected album will be displayed.
- Repeat the steps 2-3 above to select the song you want.

◆ **To cancel the navigation function, press the NAVI/PROG button on the remote control again.**
- If no button is pressed for 20 seconds, the display switches to the stop mode.

To move to a higher album

- In the currently selected album, press the STOP (■) button to move to the album that is one level higher in hierarchy.

During Playback

* This function is only available during playback of an MP3(WMA)-CD.

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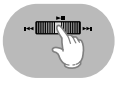
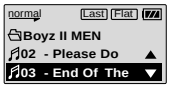
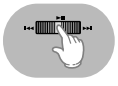
1 **Press the NAVI/PROG button on the remote control.**
- A list of all the songs in the album will be displayed.

2 **Using I◀◀ or ▶▶I button, select the desired track.**
- If no button is pressed for 20 seconds, the display switches to the playback mode.

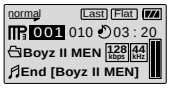




3 **Press the Play/Pause (▶II) button.**
- The selected song will be played back.



◆ **To cancel the navigation function, press the NAVI/PROG button on the remote control again.**
- The navigation function does not work while the program function is operating.



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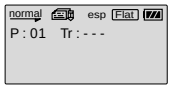
Program function

You can store up to 30 tracks of your favorite tunes.

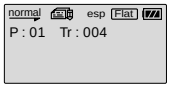
Example: When storing track number 4 to program number 1.

1 **In the stop mode, press the NAVI/PROG button on the remote control.**

- When playing an MP3(WMA)-CD, press and hold the NAVI/PROG button in the stop mode.

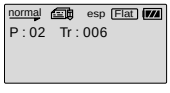


2 **Using I◀◀ or ▶▶I button, select the desired track.**



3 **Press the NAVI/PROG on the remote control.**

- Track number 4 is stored under program number 1 and you will be taken to program number 2.
- Continue to program the desired tracks.



4 **Press the Play/Pause (▶II) button when programming is complete.**

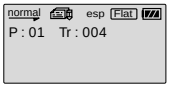
To stop program playback

- Press the STOP (■) button.
- The total number of programmed tracks as well as the total number of tracks in a given disk will be shown on the display.
- Press the Play/Pause (▶II) button to resume program playback.

GB

To confirm the program

- **In the stop mode, press the NAVI/PROG button.**
- **Each time the button is pressed, track numbers will be shown on the display according to their program sequence.**



To change the program

- **To change the programmed tracks during program confirmation, use I◀◀ or ▶▶I to select the track to change.**
- **Press the NAVI/PROG button to add new tracks.**

To cancel the program mode

- **Press the STOP (■) button twice.**
- **The Program mode will also be canceled if the lid opens during programming.**

Warning

- During programming, if no action is performed for about 15 seconds, the player will automatically turn itself off to conserve battery power consumption.

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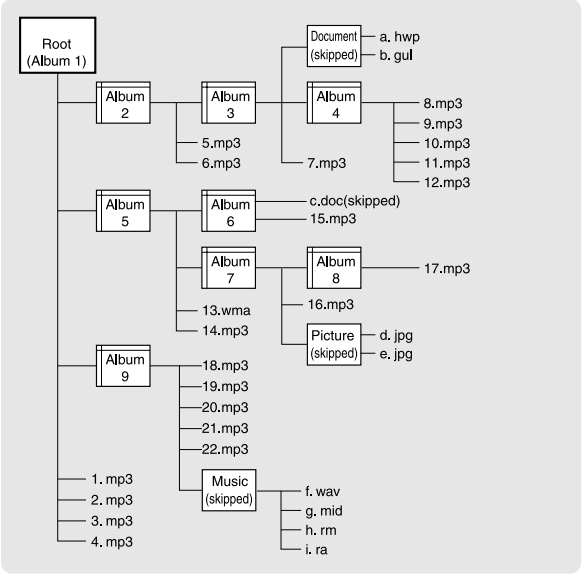
Features

Playback sequence of albums and tracks

• Albums with .jpg, .wav or .doc are not audio files and therefore will be skipped.



➢ The player can recognize up to about 700 files.

Precautions when using compact discs

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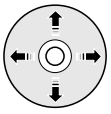
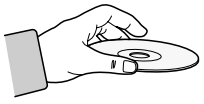
Looking after your CDs

Wash the disc with a neutral detergent diluted in water, and then wipe gently with a soft dry cloth from the center of the disc to the outside.



Handling your CDs

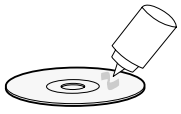
Carefully pick up the disc by its edge without touching the disc's surface.



Do not attach stickers to the signal surface (the side with shiny, rainbow colors).

Do not write on the labeled (printed) side with a ballpoint pen or a pencil.

Do not clean your CDs with record spray or anti-static. Do not use volatile chemicals such as benzene or thinners.



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Troubleshooting Guide

Problem	Check
Unit has no power.	● Did you insert the battery with the correct polarity? ● Are the batteries drained? ● Is the AC adapter connected correctly? ● Is the door open?
Playback does not function.	● Is the disc inserted correctly? ● Is the disc damaged or deformed? ● Has the unit been locked with the HOLD switch? ● Has the unit been moved from a cold place to a hot place? Abrupt change of temperature may cause condensation to form on the lens. Keep your CD Player in a warm place until the condensation on the lens has disappeared.
Earphones don't work.	● Is the volume control on the unit at the minimum setting?
A sound or track is skipped.	● Was the unit jolted or knocked? ● Is there dust, fingerprints or scratches on the disc?
Some of the MP3(WMA) files on a CD are not recognized.	● Check if the unreadable files have .mp3 (.WMA) as their extension on your PC.

Specifications

Item	Description
⋆ **Frequency range**	20Hz ~ 20KHz
⋆ **Earphone output**	440mV(RMS), 6mW/CH, 16Ω
⋆ **Signal/noise ratio**	90dB (1kHz)
⋆ **Total harmonic distortion**	0.08% (1kHz, 0dB)
Format Support	CD-DA (8Cm/12Cm)
	CD-ROM Mode 1, Mode 2 Fom 1
CD-R/RW Readability	ISO 9660, Joliet
	Romeo, Multi-session
File Support	MPEG 1 Layer 3, WMA
Bit Rate	8kbps~320kbps (MP3)
	32kbps~320kbps (WMA)
Tag Support	ID3 V1, V2
Power Adapter	DC 4.5V 500mA
Internal Rechargeable Batteries	Two Square-shaped 1350 mAh Ni-MH Batteries
External Batteries	1.5V AA/LR6 type x 2
Dimensions	131.8(W) X 16.5(H) X 135.6(D)mm
Weight	163g

⋆ : (Based on the jack output of the main unit)

GB

File Compatibility

● Only files in MP3 Format (Mpeg1.Layer3), with an .mp3 as the file extension, and WMA files with .WMA extension can be played back.

How many MP3 files can a CD-R or CD-RW disc record?

● The maximum capacity of one CD-R or CD-RW disc is 700MB.
Normally, one MP3 file has a capacity of 4MB, therefore approximately 170 files can be recorded on a single disc.

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SAMSUNG

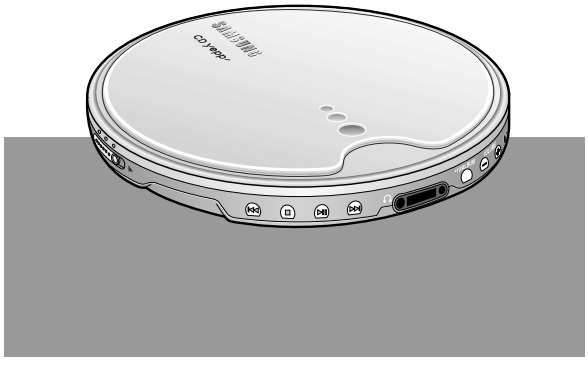
Portable MP3-CD Player

MP3-CD, WMA-CD, CD-DA Playback

MCD-HM920

SAMSUNG ELECTRONICS

Instruction Manual



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